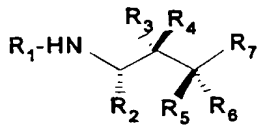
What is claimed is:

1. A protease inhibitor represented by the following structure:



wherein

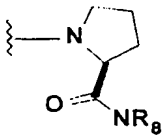
R_1 is selected from the group consisting of hydrogen, carbobenzyloxy-, carbobenzyloxy-valine-, carbobenzyloxy-glycine-valine-, carbobenzyloxy-alanine-valine-, carbobenzyloxy-leucine-valine-, carbobenzyloxy-phenylalanine-valine-, carbobenzyloxy-serine-valine-, carbobenzyloxy-alanine-asparagine-, carbobenzyloxy-threonine-valine- and carbobenzyloxy-valine-valine-;

R_2 is selected from the group consisting of $-CH_2$-Phenyl, and $-CH_2-CH(CH_3)_2$;

R_3 is selected from the group consisting of hydrogen, oxygen and hydroxyl; R_4 is selected from the group consisting of hydrogen, oxygen and hydroxyl, wherein R_3 and R_4 are not both hydroxyl and wherein R_3 and R_4 are either not oxygen or are a single combined oxygen forming a carbonyl group;

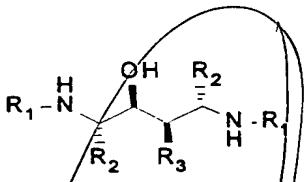
R_5 is selected from the group consisting of hydrogen, and oxygen; R_6 is selected from the group consisting of hydrogen, and oxygen, wherein R_5 and R_6 are either a single combined oxygen forming a carbonyl group or both seperately hydrogen;

R_7 is a radical represented by the formula:



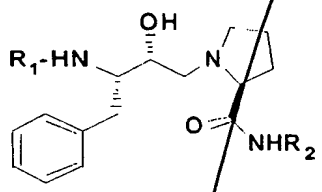
wherein R_8 is a radical selected from the group consisting of -$(H)_2$, and -H(t-Butyl).

2. A protease inhibitor represented by the following structure:



wherein R_1 is a radical selected from the group consisting of hydrogen, carbobenzyloxy-, carbobenzyloxy-valine-, carbobenzyloxy-glycine-valine-, carbobenzyloxy-alanine-valine-, carbobenzyloxy-leucine-valine-, carbobenzyloxy-phenylalanine-valine-, carbobenzyloxy-serine-valine-, carbobenzyloxy-threonine-valine-, carbobenzyloxy-alanine-asparagine- and carbobenzyloxy-valine-valine-; R_2 is selected from the group consisting of $-CH_2$-Phenyl, and $-CH_2-CH(CH_3)_2$; R_3 is a radical selected from the group consisting of hydrogen, and -OH.

3. A protease inhibitor represented by the following structure:

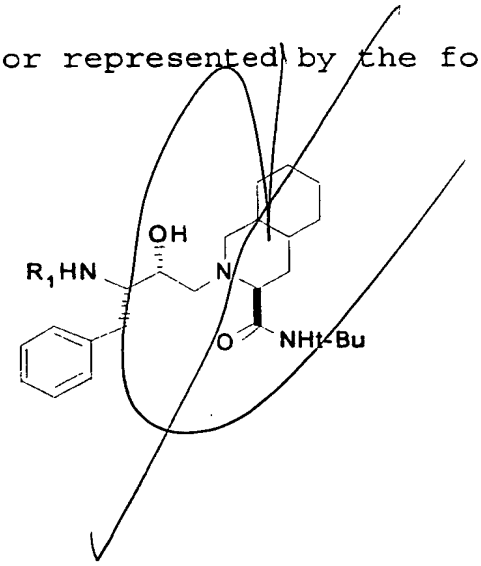


wherein

R_1 is a radical selected from the group consisting of hydrogen, carbobenzyloxy-, carbobenzyloxy-valine-, carbobenzyloxy-glycine-valine-, carbobenzyloxy-alanine-valine-, carbobenzyloxy-leucine-valine-, carbobenzyloxy-phenylalanine-valine-, carbobenzyloxy-serine-valine-, carbobenzyloxy-threonine-valine- , carbobenzyloxy-alanine-asparagine- and carbobenzyloxy-valine-valine-; and

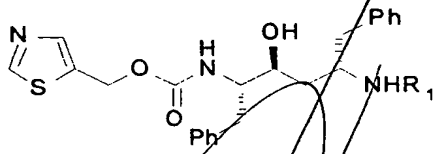
R_2 is a radical selected from the group consisting of -$(H)_2$, and -H(t-Butyl).

4. A protease inhibitor represented by the following structure:



wherein R_1 is a radical selected from the group consisting of hydrogen, carbobenzyloxy-, carbobenzyloxy-valine-, carbobenzyloxy-glycine-valine-, carbobenzyloxy-alanine-valine-, carbobenzyloxy-leucine-valine-, carbobenzyloxy-phenylalanine-valine-, carbobenzyloxy-serine-valine-, carbobenzyloxy-threonine-valine-, carbobenzyloxy-valine-valine- and carbobenzyloxy-alanine-asparagine-.

5. A protease inhibitor represented by the following structure:



wherein R_1 is a radical selected from the group consisting of hydrogen, carbobenzyloxy-, carbobenzyloxy-valine-, carbobenzyloxy-glycine-valine-, carbobenzyloxy-alanine-valine-, carbobenzyloxy-leucine-valine-, carbobenzyloxy-phenylalanine-valine-, carbobenzyloxy-serine-valine-, carbobenzyloxy-threonine-valine-, carbobenzyloxy-valine-valine- and carbobenzyloxy-alanine-asparagine-.

ADD A2 add CS